



Fire Extinguisher – Product Data

**Fire Extinguisher, Dry Chemical, ABC, 5Lb**

Fire Extinguisher, Dry Chemical, 3A:40B:C, Size 5 lb., Cylinder Material Steel, Operating Pressure 195 psi, 14 sec., 18 ft., Height 15.25 In., Dia. 4 In., Handle Type Aluminum, Valve Material Aluminum, ABC Multi-Purpose Dry Chemical, Wall or Vehicle/Marine, Mfr. Model No. 818 Grainger No. 13J017 Sold Separately, Yes, 01712, No, Industrial-grade UL Listed Fire Extinguisher, UL 299/UL 711, Includes Wall Bracket and Manual

Grainger Item #	13J002
Your Price (ea.)	\$60.26
Brand	AMEREX
Mfr. Model #	B402
Ship Qty.	1
Sell Qty. (Will-Call)	1
Ship Weight (lbs.)	9.45
Availability	Ready to Ship
Catalog Page No.	2604

Additional Info**Dry Chemical**

For Class A, B, and C fires. Easy to maintain and service. Contain a mono ammonium phosphate dry chemical. Aluminum valve, except Nos. 3YWL7, 3YWE1, and 3YWJ1 have brass, chrome-plated valves. 5-, 10-, and 20-lb. models include hose.

Tech Specs

Item: Fire Extinguisher
Type: Dry Chemical
UL Rating: 3A:40B:C
Size: 5 lb.
Cylinder Material: Steel
Operating Pressure: 195 psi
Discharge Time: 14 sec.
Range Max.: 18 ft.
Height: 15.25"
Dia.: 4"
Handle Type: Aluminum
Valve Material: Aluminum
Extinguish Agent Type: ABC Multi-Purpose Dry Chemical
Bracket Type: Wall or Vehicle/Marine
USCG Bracket: Mfr. Model No. 818 Grainger No. 13J017 Sold Separately
Rechargeable: Yes
Adapter: 01712
Disposable: No
Features: Industrial-grade UL Listed Fire Extinguisher
Standards: UL 299/UL 711
Includes: Wall Bracket and Manual

Notes & Restrictions

 Hazardous Material

MSDS

Material Safety Data Sheets (MSDS) are available for this item.

Required Accessories

There are currently no required accessories for this item.

Optional Accessories

Bracket, 5Lb Extinguisher, Steel, Red



Item #: 13J017
Brand: AMEREX
Usually Ships: Ready to Ship
Your Price (ea): \$15.67

Cabinet, Extinguisher



Item #: 1RK37
Brand: GRAINGER APPROVED VENDOR
Usually Ships: Ready to Ship
Your Price (ea): \$136.65

Cabinet, Extinguisher



Item #: 3ZV10
Brand: GRAINGER APPROVED VENDOR
Usually Ships: Ready to Ship
Your Price (ea): \$50.55

Fire Extinguisher Cover w/Window, 5-10 lb



Item #: 4T176
Brand: STEINER
Usually Ships: Ready to Ship
Your Price (ea): \$15.39

Alternate Products

Extinguisher, 5 Lb

Item #: 4XP88
Brand: KIDDE

☒ Close this window

MSDS

Common Name: ABC DRY CHEMICAL FIRE EXTINGUISHANT**Manufacturer:** AMEREX**MSDS Revision Date:** 12/1/2010**Grainger Item Number(s):** 13J002, 13J003, 13J004, 13J005, 13J006, 13J007, 2W086, 2W088, 2W327, 2W357, 3YWE1, 3YWF4, 3YWF7, 3YWG1, 3YWJ1, 3YWL7, 3YWN1, 3YWN4, 3YWN7, 3YWP1, 41256330, 8GER7, 8RY81**Manufacturer Model Number(s):**

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MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ABC DRY CHEMICAL FIRE EXTINGUISHANT**SYNONYM:** MULTI-PURPOSE DRY CHEMICAL (CH550, CH555)**MANUFACTURER:** AMEREX CORPORATION**INTERNET ADDRESS:** WWW.AMEREX-FIRE.COM**ADDRESS:**

7595 GADSDEN HIGHWAY

P.O. BOX 81

TRUSSVILLE, AL 35173-0081

TELEPHONE: (205) 655-3271**EMERGENCY CONTACTS:**

CHEMTREC: 1 (800) 424-9300 OR (703) 527-3887

REVISED: DECEMBER, 2010

**SECTION 2. HAZARD IDENTIFICATION AND EMERGENCY OVERVIEW**

EMERGENCY OVERVIEW: LIGHT YELLOW, FINE SOLID POWDER, ODORLESS.

ADVERSE HEALTH EFFECTS AND [SYMPTOMS](#):

IRRITATING TO THE RESPIRATORY SYSTEM, EYES AND SKIN. SYMPTOMS MAY INCLUDE COUGHING, SHORTNESS OF BREATH, AND IRRITATION OF THE LUNGS, EYES, AND SKIN. INGESTION, ALTHOUGH UNLIKELY, MAY CAUSE CRAMPS, NAUSEA AND DIARRHEA.

EXPOSURE GUIDELINES:

INGREDIENTS	OSHA PEL****	ACGIH TLV	DFG MAK *
MONO-AMMONIUM PHOSPHATE	PNOC** TOTAL DUST, 15 MG/M3 RESPIRABLE FRACTION, 5 MG/M3	PNOC TOTAL DUST, 10 MG/M3 RESPIRABLE FRACTION, 3 MG/M3	PNOC TOTAL DUST, 4 MG/M3 RESPIRABLE FRACTION, 1.5 MG/M3
AMMONIUM SULPHATE	PNOC TOTAL DUST, 15 MG/M3 RESPIRABLE FRACTION, 5 MG/M3	PNOC TOTAL DUST, 10 MG/M3 RESPIRABLE FRACTION, 3 MG/M3	PNOC TOTAL DUST, 4 MG/M3 RESPIRABLE FRACTION, 1.5 MG/M3
MICA	6 MG/M3	3 MG/M3	NR
FULLERS EARTH	PNOC TOTAL DUST, 15 MG/M3 RESPIRABLE FRACTION, 5 MG/M3	PNOC TOTAL DUST, 10 MG/M3 RESPIRABLE FRACTION, 3 MG/M3	PNOC TOTAL DUST, 4 MG/M3 RESPIRABLE FRACTION, 1.5 MG/M3
SILICONE OIL	NR***	NR	NR
CALCIUM CARBONATE	PNOC TOTAL DUST, 15 MG/M3 RESPIRABLE FRACTION, 5 MG/M3	PNOC TOTAL DUST, 10 MG/M3 RESPIRABLE FRACTION, 3 MG/M3	
AMORPHOUS SILICA	143 MG/M3 80 MG/M3/ OR % SiO2	10 MG/M3	4 MG/M3
YELLOW 14 PIGMENT	NR	NR	NR

*GERMAN REGULATORY LIMITS:

**PNOC = PARTICULATES NOT OTHERWISE CLASSIFIED (ACGIH) ALSO KNOWN AS PARTICULATES NOT OTHERWISE REGULATED (OSHA)

*** NR = NOT REGULATED.

ALL VALUES ARE 8 HOUR TIME WEIGHTED AVERAGE CONCENTRATIONS.

****TOTAL DUST PEL FOR WASHINGTON STATE = 10 MG/M3 FOR PNOC

HAZARD SYMBOLS:

WHMIS (CANADIAN WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION SYSTEM)

D2B: PRODUCT MAY IRRITATE EYES, SKIN, OR MUCOUS MEMBRANES

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

NAME/COMPOUND	WEIGHT %	CAS #
MONO-AMMONIUM PHOSPHATE AND AMMONIUM SULPHATE	>94	7722-76-1 7783-20-2
FULLERS EARTH MAGNESIUM ALUMINUM SILICATE-	<3	8031-18-3
MICA POTASSIUM ALUMINUM SILICATE	1-2	12001-26-2
SILICONE OIL METHYL HYDROGEN POLYSILOXANE	<1	63148-57-2
CALCIUM CARBONATE	<1	1317-65-3
AMORPHOUS SILICA PRECIPITATED SYNTHETIC ZEOLITE	<1	112926-00-8
YELLOW 14 PIGMENT - DI-AZO DYE	<1	5468-75-7

SECTION 4. FIRST AID MEASURES**EYE EXPOSURE:**

IRRIGATE EYES WITH WATER AND REPEAT UNTIL PAIN FREE. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR IF VISION CHANGES OCCUR.

SKIN EXPOSURE:

IN CASE OF CONTACT, WASH WITH PLENTY OF SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

IF RESPIRATORY IRRITATION OR DISTRESS OCCURS REMOVE VICTIM TO FRESH AIR. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

INGESTION:

IF VICTIM IS CONSCIOUS AND ALERT, GIVE 2-3 GLASSES OF WATER TO DRINK AND DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION. DO NOT LEAVE VICTIM UNATTENDED. TO PREVENT ASPIRATION OF SWALLOWED PRODUCT, LAY VICTIM ON SIDE WITH HEAD LOWER THAN WAIST. IF VOMITING OCCURS AND THE VICTIM IS CONSCIOUS, GIVE WATER TO FURTHER DILUTE THE CHEMICAL.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:

INHALATION OF PRODUCT MAY AGGRAVATE EXISTING CHRONIC RESPIRATORY PROBLEMS SUCH AS ASTHMA, EMPHYSEMA, OR BRONCHITIS. SKIN CONTACT MAY AGGRAVATE EXISTING SKIN DISEASE. CHRONIC OVEREXPOSURE MAY CAUSE PNEUMOCONIOSIS ("DUSTY LUNG" DISEASE).

SECTION 5. FIRE FIGHTING MEASURES**EXTINGUISHING MEDIA:**

NON COMBUSTIBLE AND NON FLAMMABLE - PRODUCT IS AN EXTINGUISHING AGENT.

UNUSUAL FIRE/EXPLOSION HAZARDS:

IN A FIRE THIS MATERIAL MAY DECOMPOSE, RELEASING OXIDES OF SULFUR AND CARBON (SEE SECTION 10).

INSENSITIVE TO MECHANICAL IMPACT OR STATIC DISCHARGE.

HMIS HAZARD RANKING:

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

PERSONAL PROTECTIVE EQUIPMENT 1/2 MASK APR W/HEPA CARTRIDGES
(SEE SECTION 8).

SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN UP RELEASED MATERIAL USING VACUUM OR WET SWEEP AND SHOVEL TO MINIMIZE GENERATION OF DUST. WEAR APPROPRIATE RESPIRATORY PROTECTION. BAG AND DRUM FOR DISPOSAL. IF PRODUCT IS USED AND/OR CONTAMINATED, USE PPE AND CONTAINMENT APPROPRIATE TO THE NATURE OF THE MIXTURE. PREVENT MATERIAL FROM ENTERING WATERWAYS.

SECTION 7. HANDLING AND STORAGE

AVOID SKIN, EYE, OR RESPIRATORY EXPOSURE. USE APPROPRIATE PPE WHEN HANDLING OR MAINTAINING EQUIPMENT, AND WASH THOROUGHLY AFTER HANDLING (SEE SECTION 8). KEEP PRODUCT IN ORIGINAL CONTAINER OR EXTINGUISHER. CONTENTS MAY BE UNDER PRESSURE - INSPECT FOR EXTINGUISHER RUST PERIODICALLY TO INSURE CONTAINER INTEGRITY. DO NOT MIX WITH OTHER EXTINGUISHING AGENTS.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

DURING THE [APPLICATION](#) OF THIS PRODUCT AGAINST FIRES, EXHAUST GASES AND THE PRODUCTS OF INCOMPLETE COMBUSTION (PICS) ARE THE PRINCIPAL RESPIRATORY HAZARDS. IN THE MANUFACTURE OF EXTINGUISHERS, AUTOMATED SYSTEMS AND POINT SOURCE VENTILATION CONTROLS SUFFICIENTLY MINIMIZE RESPIRATORY EXPOSURE. EMPLOYERS AND EMPLOYEES MUST USE THEIR COLLECTIVE JUDGMENT IN DETERMINING OCCUPATIONAL SETTINGS WHERE THE USE OF A DUST MASK OR AIR PURIFYING RESPIRATOR IS PRUDENT. THE NEED FOR RESPIRATORY PROTECTION IS NOT LIKELY FOR SHORT-TERM USE IN WELL VENTILATED AREAS.

RESPIRATORY PROTECTION:

USE N95 DUST MASK OR AIR-PURIFYING RESPIRATOR (APR) WITH HIGH EFFICIENCY PARTICULATE AIR (HEPA) FILTERS.

EYE PROTECTION: WEAR CHEMICAL GOGGLES.

SKIN PROTECTION:

USE NITRILE, LATEX, OR SIMILAR GLOVES AND COVERALLS. GOOD PERSONAL HYGIENE PRACTICES ESSENTIAL, SUCH AS AVOIDING FOOD, TOBACCO PRODUCTS, OR OTHER HAND-TO-MOUTH CONTACT WHEN HANDLING. WASH THOROUGHLY AFTER HANDLING.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: YELLOW POWDER, FINELY DIVIDED ODORLESS SOLID.

SPECIFIC GRAVITY: APPROX. .88 IN AERATED CONDITION

SOLUBILITY:

PRODUCT IS COATED-NOT IMMEDIATELY SOLUBLE IN WATER NON-FLAMMABLE

FLASH POINT: NONE

VAPOR PRESSURE: <1 MMHg

pH: APPROXIMATELY 4-5

BOILING POINT: NOT APPLICABLE

NO EXPLOSIVE OR OXIDIZING PROPERTIES

SECTION 10. STABILITY AND REACTIVITY



STABILITY: STABLE

INCOMPATIBLES:

STRONG ALKALIS (BASES), MAGNESIUM, STRONG OXIDIZERS SUCH AS CALCIUM HYPOCHLORITE (POOL CHLORINE) AND ISOCYANURIC ACIDS.

DECOMPOSITION PRODUCTS:

HEAT OF FIRE MAY RELEASE CARBON MONOXIDE, CARBON DIOXIDE, AND SULFUR DIOXIDE.

OXIDES OF PHOSPHOROUS AND AMMONIA REPORTED.

POSSIBILITY OF HAZARDOUS REACTIONS: SLIGHT. SEE INCOMPATIBILITIES ABOVE.

SECTION 11. TOXICOLOGICAL INFORMATION



ACUTE TOXICITY:

MONO AMMONIUM PHOSPHATE LD50 (RAT): >1000 MG/KG BODY WEIGHT

AMMONIUM SULFATE LD50 (RAT): 2840 MG/KG BODY WEIGHT

TARGET ORGANS IN MAN:

RESPIRATORY SYSTEM, EYES, SKIN. THIS PRODUCT IS AN IRRITANT TO EPITHELIAL TISSUE, AND MAY AGGRAVATE DERMATITIS. NO INFORMATION WAS FOUND INDICATING THE PRODUCT CAUSES SENSITIZATION.

CHRONIC TOXICITY:

PNEUMOCONIOSIS, OR "DUSTY LUNG" DISEASE, MAY RESULT FROM CHRONIC EXPOSURE TO ANY DUST.

REPRODUCTIVE TOXICITY:

THIS PRODUCT'S INGREDIENTS ARE NOT KNOWN TO HAVE REPRODUCTIVE OR TERATOGENIC EFFECTS.

SECTION 12. ECOLOGICAL INFORMATION



ECOTOXICITY:

NEGATIVE EFFECTS UNKNOWN. PROVIDES NUTRIENT NITROGEN AND PHOSPHORUS TO PLANT LIFE.

PERSISTENCE/DEGRADABILITY: DEGRADES RAPIDLY IN HUMID/WET ENVIRONMENT.

BIOACCUMULATION: EXTENT UNKNOWN.

MOBILITY IN SOIL:

SLOW EVAPORATION RATE; WATER SOLUBLE, MAY LEACH TO GROUNDWATER.

SECTION 13. DISPOSAL CONSIDERATIONS



THIS PRODUCT IS NOT A RCRA CHARACTERISTICALLY HAZARDOUS OR LISTED HAZARDOUS WASTE. DISPOSE OF ACCORDING TO STATE OR LOCAL LAWS, WHICH MAY BE MORE RESTRICTIVE THAN FEDERAL LAWS OR REGULATIONS. USED PRODUCT MAY BE ALTERED OR CONTAMINATED, CREATING DIFFERENT DISPOSAL CONSIDERATIONS.

SECTION 14. TRANSPORTATION INFORMATION



THIS PRODUCT IS NOT A HAZARDOUS MATERIAL UNDER U.S. DEPARTMENT OF TRANSPORTATION (DOT) 49 CFR 172, AND IS NOT REGULATED BY THE DOT OR TRANSPORT CANADA "TRANSPORTATION OF DANGEROUS GOODS" REGULATIONS.

WHEN SHIPPED IN A STORED PRESSURE TYPE FIRE EXTINGUISHER, AND PRESSURIZED WITH A NON-FLAMMABLE, NON-TOXIC INERT EXPELLANT GAS, THE FIRE EXTINGUISHER IS CONSIDERED A HAZARDOUS MATERIAL BY THE US DEPARTMENT OF TRANSPORTATION AND TRANSPORT CANADA. THE PROPER SHIPPING NAME SHALL BE FIRE EXTINGUISHER AND THE UN DESIGNATION IS UN 1044. THE DOT HAZARD CLASS/DIVISION IS 2.2. NON-FLAMMABLE GAS. PACKING GROUP - N/A.

SECTION 15. REGULATORY INFORMATION



INTERNATIONAL INVENTORY STATUS:

ALL INGREDIENTS ARE ON THE FOLLOWING INVENTORIES:

COUNTRY(IES)	AGENCY	STATUS
UNITED STATES OF AMERICA	TSCA	YES
CANADA	DSL	YES
EUROPE	EINECS/ELINCS	YES
AUSTRALIA	AICS	YES
JAPAN	MITI	YES
SOUTH KOREA	KECL	YES

EUROPEAN RISK AND SAFETY PHRASES:

EU CLASSIFICATION: HARMFUL.

R PHRASES:

22: HARMFUL IF SWALLOWED.

36/37/38: IRRITATING TO EYES, RESPIRATORY SYSTEM, AND SKIN.

S PHRASES:

26:

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

36: WEAR SUITABLE PROTECTIVE CLOTHING.

COMPONENTS:

MONO AMMONIUM PHOSPHATE:

EU CLASSIFICATION: HARMFUL.

R PHRASES:

22: HARMFUL IF SWALLOWED.

36/37/38: IRRITATING TO EYES, RESPIRATORY SYSTEM, AND SKIN.

S PHRASES:

26:

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

36: WEAR SUITABLE PROTECTIVE CLOTHING.

AMMONIUM SULFATE:

EU CLASSIFICATION: IRRITANT

R PHRASES:

22: HARMFUL IF SWALLOWED.

36/37/38: IRRITATING TO EYES, RESPIRATORY SYSTEM, AND SKIN.

S PHRASES:

26:

IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

36: WEAR SUITABLE PROTECTIVE CLOTHING.

U.S. FEDERAL REGULATORY INFORMATION:

NONE OF THE CHEMICALS IN THIS PRODUCT ARE UNDER SARA REPORTING REQUIREMENTS OR HAVE SARA THRESHOLD PLANNING QUANTITIES (TPQS) OR CERCLA REPORTABLE QUANTITIES (RQS), OR ARE REGULATED UNDER TSCA 8(D).

STATE REGULATORY INFORMATION:

CHEMICALS IN THIS PRODUCT ARE COVERED UNDER SPECIFIC STATE REGULATIONS, AS DENOTED BELOW:

ALASKA - DESIGNATED TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA - PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS: NONE

FLORIDA - SUBSTANCE LIST: MICA DUST, AMMONIUM SULFATE

ILLINOIS - TOXIC SUBSTANCE LIST: NONE

KANSAS - SECTION 302/303 LIST: NONE

MASSACHUSETTS - SUBSTANCE LIST: MICA DUST, AMMONIUM SULFATE

MINNESOTA - LIST OF HAZARDOUS SUBSTANCES: NONE

MISSOURI - EMPLOYER INFORMATION/TOXIC SUBSTANCE LIST: NONE

NEW JERSEY - RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST: NONE

NORTH DAKOTA - LIST OF HAZARDOUS CHEMICALS, REPORTABLE QUANTITIES: NONE

PENNSYLVANIA - HAZARDOUS SUBSTANCE LIST: NONE

RHODE ISLAND - HAZARDOUS SUBSTANCE LIST: MICA DUST, AMMONIUM SULFATE

TEXAS - HAZARDOUS SUBSTANCE LIST: NO

WEST VIRGINIA - HAZARDOUS SUBSTANCE LIST: NONE

WISCONSIN - TOXIC AND HAZARDOUS SUBSTANCES: NONE

CALIFORNIA PROPOSITION 65:

NO COMPONENT IS LISTED ON THE CALIFORNIA PROPOSITION 65 LIST.

SECTION 16. OTHER INFORMATION



THIS MSDS CONFORMS TO REQUIREMENTS UNDER U.S., U.K., CANADIAN, AUSTRALIAN, AND EU REGULATIONS OR STANDARDS, AND CONFORMS TO THE PROPOSED 2003 ANSI Z400.1 FORMAT.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE. UPDATED BY LINDSAY R. HILL, CIH.

ABC

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DEALS

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OWNERS SERVICE MANUAL NO. 05602

INSTALLATION, OPERATING & SERVICING INSTRUCTIONS

All fire extinguishers should be installed, inspected and maintained in accordance with the National Fire Protection Association standard titled "Portable Fire Extinguishers", NFPA-10 and the requirements of local authorities having jurisdiction.

When maintenance is indicated, it should be performed by trained persons having proper equipment. Fire extinguishers are pressure vessels and must be treated with respect and handled with care. They are mechanical devices and require periodic maintenance to be sure that they are ready to operate properly and safely. Amerex strongly recommends that the maintenance of portable fire extinguishers be done by a trained professional – your local authorized Amerex Distributor.

Amerex Corporation makes original factory parts available to insure proper maintenance – **USE OF SUBSTITUTE PARTS RELEASES AMEREX OF ITS WARRANTY OBLIGATIONS.** Amerex parts have machined surfaces and threads that are manufactured to exacting tolerances. O-rings, hoses, nozzles, and all metal parts meet precise specifications and are subjected to multiple in-house inspections and tests for acceptability. There are substitute parts available that may be incorrectly labeled as UL component parts, some are advertised as Amerex type. None of these meet UL requirements and all of them voids the Amerex extinguisher warranty and UL listing. **DO NOT SUBSTITUTE.**

RECHARGE FIRE EXTINGUISHERS IMMEDIATELY AFTER ANY USE

REFERENCES IN THIS MANUAL:

NFPA-10 Portable Fire Extinguishers

CGA C-1 Methods for Hydrostatic Testing of
Compressed Gas Cylinders

CGA C-6 Standard for Visual Inspection of
Compressed Gas Cylinders

AVAILABLE FROM:

National Fire Protection Association
1 Batterymarch Park, P.O. Box 9101
Quincy, MA 02269-9101

Compressed Gas Association, Inc.
4221 Walney Road, 5th Floor
Chantilly, VA 20151-2923

AMEREX CORPORATION – P.O. BOX 81 – TRUSSVILLE, ALABAMA 35173-0081

Phone: 205/655-3271 Fax: 800/654-5980

e-mail: sales@amerex-fire.com Web Page: <http://www.amerex-fire.com>

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OM05602E Rev. 10/11

**STORED PRESSURE, HAND PORTABLE
DRY CHEMICAL FIRE EXTINGUISHERS**
**ABC (AMMONIUM PHOSPHATE BASE), REGULAR (SODIUM BICARBONATE BASE),
PURPKE K (POTASSIUM BICARBONATE BASE)**

INSTALLATION

Your layout and particular hazards dictate the placement of fire extinguishers. NFPA-10 requires that hand portable extinguishers with a gross weight less than 40 lbs. be hung with the top of the extinguisher **not more** than 5 ft. (1.53 m) above the floor. Extinguishers having a gross weight greater than 40 lbs. (18.14 kg) should be installed so that the top of the extinguisher is **not more** than 3 ½ ft. (1.07m) above the floor. All extinguishers should be in an accessible location and near an exit. **Never install the extinguisher in a location where a potential hazard would prevent easy access.** The operational temperature range for this extinguisher is -65°F to +120°F (-54°C to +49°C) or -40°F to +120°F (-40°C to +49°C) [please see the nameplate on your extinguisher]. The extinguisher should be adequately protected if temperatures outside of this range are anticipated. Keep the extinguisher clean and free from dirt, ice, chemicals and any contaminants that may interfere with its proper operation. **DO NOT FUNCTIONALLY TEST THIS FIRE EXTINGUISHER.** (Testing or any use may cause the extinguisher to gradually lose pressure over a period of time and make the extinguisher ineffective.) Never throw an extinguisher into a fire because rapid heat buildup could cause pressure expansion and exceed the limitations of the cylinder.

OPERATION

NOTE: Persons expected to use this extinguisher should be trained in initiating its operation and in the proper firefighting technique. Familiarize all personnel with this information before an emergency occurs.

1. Remove the extinguisher from wall hanger or bracket.
2. Hold the extinguisher upright, twist and pull the ring (safety) pin, snapping the plastic lockwire seal.
3. Starting back a minimum of 8 feet from the fire, grasp the nozzle and aim at the base of the fire nearest you.
4. Keeping the extinguisher upright, squeeze the lever to discharge and sweep the chemical agent stream from side to side. Work the fire away from you while being alert for flashbacks. Move closer as the fire is extinguished but not so close as to scatter or splash the burning material.
5. When the fire is out, stand by and watch for possible re-ignition.
6. Evacuate and ventilate the area immediately after extinguishing the fire. The fumes and smoke from any fire may be hazardous and can be deadly.

CAUTION: DISCHARGE TIME AND EFFECTIVE RANGE OF THE AGENT THROW VARIES ACCORDING TO MODEL – SEE THE SPECIFICATION LITERATURE FOR YOUR EXTINGUISHER.

RECHARGE FIRE EXTINGUISHERS IMMEDIATELY AFTER ANY USE

AMEREX CORPORATION DOES NOT SERVICE, MAINTAIN OR RECHARGE FIRE EXTINGUISHERS. THIS MANUAL IS PUBLISHED AS A GUIDE TO ASSIST QUALIFIED SERVICE PERSONNEL IN THE INSPECTION, MAINTENANCE AND RECHARGE OF AMEREX FIRE EXTINGUISHERS ONLY. NO INSTRUCTION MANUAL CAN ANTICIPATE ALL POSSIBLE MALFUNCTIONS THAT MAY BE ENCOUNTERED IN THE SERVICE OF FIRE EXTINGUISHERS. DUE TO THE POSSIBILITY THAT PRIOR SERVICE PERFORMED ON THIS EQUIPMENT MAY HAVE BEEN IMPROPERLY DONE, IT IS EXTREMELY IMPORTANT THAT ALL WARNINGS, CAUTIONS AND NOTES IN THIS MANUAL BE CAREFULLY OBSERVED. FAILURE TO HEED THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY.

AMEREX ASSUMES NO LIABILITY FOR SERVICE, MAINTENANCE OR RECHARGE OF FIRE EXTINGUISHERS BY PUBLISHING THIS MANUAL.

INSPECTING THE EXTINGUISHER

This extinguisher should be inspected at regular intervals (monthly or more often if circumstances dictate) to insure that it is ready for use. Inspection is a "quick check" that a fire extinguisher is available and is in operating condition. It is intended to give reasonable assurance that the fire extinguisher is fully charged. This is done by verifying that it is in its designated place, that it has not been actuated or tampered with, and that there is no obvious physical damage or condition to prevent its operation.

PERIODIC INSPECTION PROCEDURES

(Monthly or more often if circumstances dictate)

[NFPA-10] Periodic inspection of fire extinguishers shall include a check of at least the following items:

- 1. Location in designated place.**
- 2. No obstruction to access or visibility.**
- 3. Pressure gauge reading or indicator in the operable range or position.**
- 4. Fullness determined by weighing or hefting for self-expelling-type extinguishers, Cartridge-operated extinguishers, and pump tanks.**
- 5. Operating instructions on nameplate and facing outward.**
- 6. Safety seals and tamper indicators not broken or missing.**
- 7. Examination for obvious physical damage, corrosion, leakage, or clogged nozzle.**

MAINTENANCE

[NFPA-10] At least once a year or more frequently if circumstances require, maintenance should be performed. Maintenance is a "thorough check" of the extinguisher. It is intended to give maximum assurance that a fire extinguisher will operate effectively and safely. It includes a thorough examination for physical damage or condition to prevent its operation and any necessary repair or replacement. It will normally reveal if hydrostatic testing or internal maintenance is required.

MAINTENANCE – SERVICE PROCEDURE

WARNING: BEFORE SERVICING BE SURE THE EXTINGUISHER AGENT CYLINDER IS NOT PRESSURIZED. THIS PROCEDURE IS BEST ACCOMPLISHED WITH THE EXTINGUISHER IN AN UPRIGHT POSITION AND ON A LEVEL SURFACE.

1. Clean extinguisher to remove dirt, grease or foreign material. Check to make sure that the instruction nameplate is securely attached and legible. Inspect the cylinders for corrosion, abrasion, dents or weld damage. If any damage is found, hydrostatically test in accordance with instructions in CGA C-1 and C-6 and NFPA 10.

Note: When cleaning, avoid use of solvents around the pressure gauge. They could seriously damage the plastic gauge face.

2. Inspect the extinguisher for damaged, missing or substitute parts. Only factory replacement parts are approved for use on Amerex fire extinguishers.
3. Weigh the extinguisher and compare with weight printed in the "Maintenance" section on the nameplate (label). Recharge extinguisher if weight is not within indicated allowable tolerances.
4. Check the date of manufacture printed on the extinguisher label (nameplate) or on the agent cylinder dome. The agent cylinder must be hydrostatically tested every 12 years to the test pressure indicated on the nameplate.
5. Visually inspect the pressure gauge:
 - a. If bent, damaged or improper gauge, depressurize and replace.
 - b. If pressure is low, check for leaks.
 - c. If over pressurized (overcharged), depressurize the extinguisher and follow recharge instructions.
6. Check ring pin for freedom of movement. Replace if bent or if removal appears difficult.
7. Inspect discharge lever for any dirt or corrosion which might impair freedom of movement. Inspect carrying handle for proper installation. If lever, handle or rivets are damaged replace with proper Amerex part(s).
8. Install new tamper seal if broken and record service data on the extinguisher inspection tag.
9. Remove nozzle or hose and horn assembly and visually inspect inside valve body. (Chemical in the valve body may indicate that the extinguisher has been partially discharged and should therefore be recharged). Inspect nozzle or the hose & horn assembly for damage – replace as necessary. Blow air through nozzle or hose and horn to insure passage is clear of foreign material.
10. Inspect the valve assembly for corrosion or damage to hose thread connection. Replace valve assembly or component parts as necessary following the proper depressurization and recharge procedures. If valve removal is necessary, complete all steps in the Recharge Procedure.
11. Install nozzle or hose and horn assembly.
12. Replace the extinguisher on the wall hanger or in the vehicle bracket making sure that it fits the bracket properly and the bracket is securely attached – replace the bracket if necessary.

COMPLETE MAINTENANCE – SIX YEAR TEARDOWN

[NFPA-10] Every six years, stored pressure extinguishers that require a 12 year hydrostatic test shall be emptied and subjected to the applicable maintenance procedures. When the applicable maintenance procedures are performed during periodic recharging or hydrostatic testing, the six year requirement shall begin from that date.

NOTE: Some states have legislation which requires "Complete Maintenance" on an annual basis. Please contact your local Amerex Distributor to see if these requirements apply to you.

1. Discharge chemical and pressure into a "closed" dry chemical recovery system (several are commercially available). Make sure that the extinguisher is completely empty and depressurized.

NOTE: A "closed recovery system" is designed to prevent loss of the chemical "fines". Loss of the "fines" could result in reduced extinguisher efficiency.

2. Clean extinguisher to remove dirt, grease or foreign material. Check to make sure that the instruction nameplate is securely fastened and legible. Inspect the cylinder for corrosion, abrasion, dents or weld damage. If any of these conditions are found and you doubt the integrity of the cylinder, hydrostatically test to factory test pressure marked on the nameplate (label), using the proof pressure method, in accordance with CGA C-1 and NFPA 10.

NOTE: When cleaning, avoid use of solvents around the pressure gauge. They could seriously damage the plastic gauge face.

3. Inspect the extinguisher for damaged, missing or substitute parts. ONLY FACTORY REPLACEMENT PARTS ARE APPROVED FOR USE ON AMEREX FIRE EXTINGUISHERS.
4. Check the date of manufacture on the extinguisher label (nameplate). Cylinder must be hydrostatically (proof pressure) tested every 12 years to the test pressure indicated on the nameplate.
5. Visually inspect the pressure gauge – if bent, damaged or improper type or pressure – replace with the proper Amerex pressure gauge (see Parts List).
6. Check ring pin for freedom of movement. Replace if bent or if removal appears difficult.
7. Inspect discharge lever for any dirt or corrosion which might impair freedom of movement. Inspect carrying handle for proper installation. If lever, handle or rivets are damaged, replace with proper Amerex parts.
8. Remove nozzle or hose and horn assembly and visually inspect threads on nozzle or hose coupling, horn and hose for damage, and replace as necessary. Blow air through nozzle or hose and horn to insure passage is clear of foreign material.
9. Inspect the valve assembly for corrosion or damage to nozzle or hose thread connection. Replace valve assembly or component parts as necessary.

WARNING: Before attempting to disassemble the extinguisher be sure it is completely depressurized.

10. Remove and disassemble valve assembly by removing downtube, spring and valve stem assembly. Install a new valve stem and collar o-ring after lightly lubricating with Visilox V- 711. (Do not lubricate valve stem seal.)
11. Complete steps 3 through 14 of Recharge Procedure.

RECHARGE

WARNING:

- a. Before attempting to disassemble, be sure the extinguisher is completely depressurized.
- b. Never have any part of your body over the extinguisher while removing the valve assembly.
- c. Use a protective shield between you and the pressure gauge while charging an extinguisher. Do not stand in front of the gauge if a shield is not available.
- d. Use a regulated pressurizing source of dry nitrogen only with a minimum dew point of minus 70°F (minus 57°C). Set the regulator to no more than 25 psi above the operating pressure.
- e. Check and calibrate regulator gauge at frequent intervals. The regulator gauge should be used to determine when the intended charging pressure has been reached. Do not use the extinguisher gauge for this purpose.
- f. Never leave an extinguisher connected to a regulator of a high pressure source for an extended period of time. A defective regulator could cause the cylinder to rupture due to excessive pressure.
- g. Do not mix types of dry chemicals in extinguishers, recharge or recovery systems. Mixing ABC (acidic base) with Regular, Purple-K, Super-K or Monnex (alkaline base) dry chemicals may result in a chemical reaction capable of developing a dangerous pressure buildup.

RECHARGING PROCEDURE

1. Perform steps 1 through 10 of the "Complete Maintenance (Six Year Teardown)" section.
2. Thoroughly clean all parts of the disassembled valve with a soft bristle brush or soft cloth. Blow the valve out with air or nitrogen. Inspect the collar o-ring, valve stem, spring and downtube assembly, and replace parts if worn or damaged. Lubricate the collar o-ring and small o-ring on the valve stem with Visilox V-711 (do not lubricate the valve stem seal).
3. Reassemble the valve assembly, including downtube and set aside.
4. Remove any chemical remaining in the cylinder and check the condition. Properly dispose of any chemical that is contaminated or caked in accordance with local regulations.
5. Inspect the cylinder interior following CGA Visual Inspection Standard C-6.
6. Using an accurate scale, fill cylinder with the correct amount and type of dry chemical specified on the label (nameplate). Use Amerex chemical which has been kept free of moisture and contamination.

CAUTION: Filling by eye alone could cause potentially dangerous overfilling – always use a scale.

7. Clean cylinder collar o-ring seat and collar threads with a small brush and then wipe off surfaces with a clean cloth to remove dust. Lightly brush the collar o-ring seat with Visilox V-711.
8. Carefully center the downtube and install valve assembly **hand tight** to the cylinder (the bottom of the valve body should touch the top of the cylinder collar). Attach the nitrogen charging adapter to the valve assembly.
9. With the extinguisher properly secured in an upright position, connect your nitrogen pressurizing line with a quick connect to the nitrogen charging adapter. Depress the extinguisher operating lever and pressurize extinguisher with dry nitrogen to the proper operating pressure. When the desired pressure has been reached, release the lever. Shut off nitrogen supply and remove the quick connect.

10. Check extinguisher for leaks by applying detecting fluid or a solution of soapy water to the nitrogen charging adapter orifice, around the collar o-ring sealing area, cylinder welds and gauge. Remove the nitrogen charging adapter. Blow air or nitrogen into the interior of the valve assembly to remove any remaining leak detecting fluid. Wipe exterior of extinguisher to remove any remaining residue.
11. Install nozzle or hose and horn assembly.
12. Install ring pin with ring facing the front of the extinguisher.
13. Install tamper seal. Record recharge date and attach new recharge tag.
14. Weigh assembled extinguisher and confirm that the total weight is within the allowable tolerances indicated in the Maintenance section of the nameplate (label).

TROUBLESHOOTING GUIDE

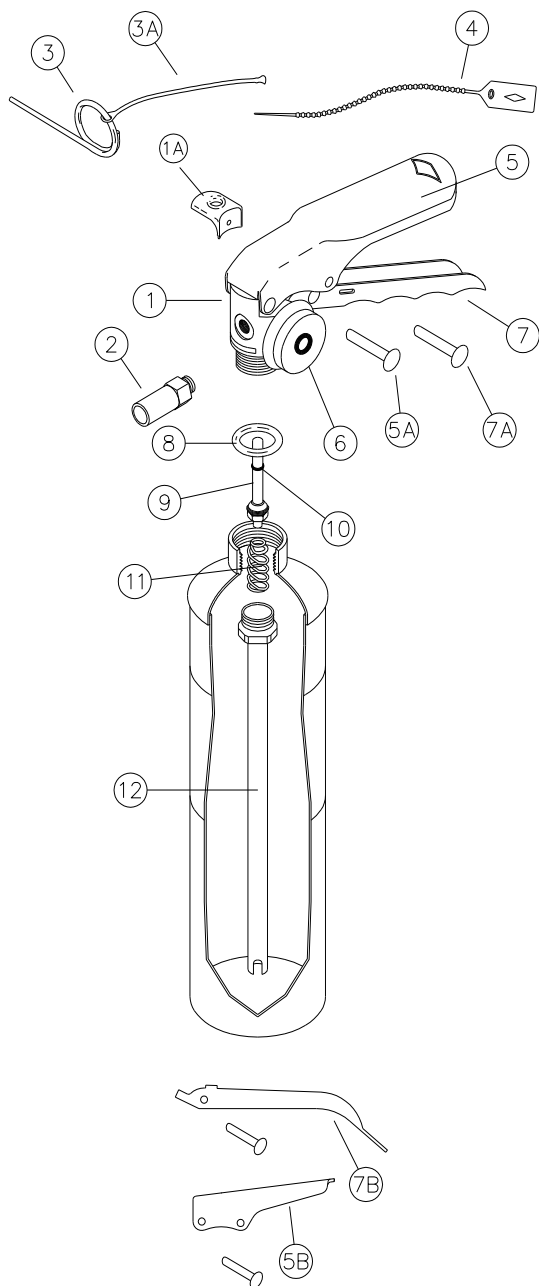
WARNING: Determine the source of a leak before the extinguisher is depressurized. The extinguisher must be completely depressurized before any attempt is made to devalue it and correct a leakage problem. To depressurize – hold the extinguisher in an inverted position and slowly squeeze the discharge handle. Some chemical remaining in the downtube will be expelled so care should be taken in the area being used for depressurizing. Thoroughly clean all valve parts after depressurization and valve removal.

	PROBLEM	CORRECTIVE ACTION
1.	Leak at collar o-ring	Remove valve assembly, remove and discard o-ring, clean collar and lube lightly with Visilox V-711. Clean o-ring groove on valve and install new collar o-ring. Lubricate with Visilox V-711.
2.	Leak through valve	Check valve stem seating area for scratches or foreign matter. Clean seating area with a tooth brush and soft cloth. Install new valve stem assembly.
3.	Leak around gauge	Remove gauge*, clean threads and reinstall using Teflon tape on the gauge threads.
4.	Defective gauge	Remove defective gauge* and install the proper Amerex pressure gauge using Teflon tape on the gauge threads.
5.	Leak in the cylinder	Contact Amerex if under warranty, otherwise mark "REJECTED" and remove from service or return to owner.
	* Pressure gauge threads are coated with a special epoxy at the factory. For easy removal, soak the valve assembly in hot water (180°F) for two to four minutes. Remove gauge with a thin 7/16" open end wrench.	



PARTS LIST
for
1 – 6 lb. Dry Chemical
(Fixed Nozzle)
Aluminum Valve Models

A/B/C403	416	425
409	A/B416	A/B459
A/B409	417	A620
A/B410	A/B417	

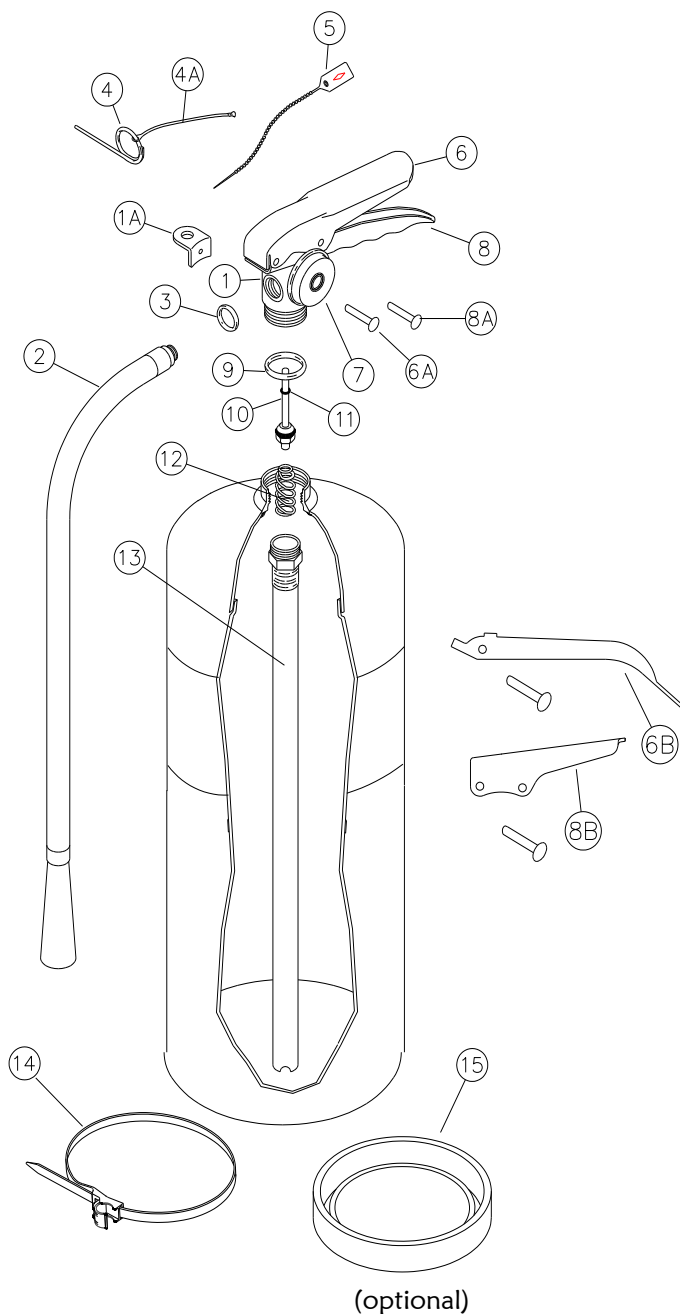


Item No.	Part No.	Description	Std. Pkg.
1	12699	Valve Assembly – A620	1
	11823	ALL OTHER MODELS	1
1A	14220	Hanger Loop w/Screw (Optional)	6
2	12494	Nozzle-A620T (.076 Short)	6
	01926	417,A/B417 (.129)	
	03741	409,416T,A/B409,A/B416 (.173P)	
	03211	403,A/B403 (.120ST)	
	01276	410,A/B410 (.120)	
	01253	425 (.166)	
	03353	459 (.144)	
3	01412	Ring Pin	24
	16353	Ring Pin 1 lb. & 2 ½ lb.	24
3A	00532	Chain (Nylon) for Ring Pin	24
4	01387	Lockwire Seal (Yellow)	500
5	11825	Lever & Rivet "A/B" Valve	1
5A	01060	Rivet Only for Lever Old & A/B Vlv	24
5B	06067	Lever & Rivet – A620	1
	02625	Lever & Rivet – Forged Valve	1
6	08184	Gauge – 100 psi for A620	6
	03103	Gauge – 195 psi	6
7	11826	Handle & Rivet "A/B" Valve	1
7A	01064	Rivet Only for Handle – All Valves	24
7B	09001	Handle & Rivet – A620	1
	09002	Handle & Rivet–2 ½ & 5 lb – Forged Valve	1
	09003	Handle & Rivet – 6 lb. Forged Vlv	1
8	05241	Collar O-Ring	24
		Collar O-Ring – Bulk Bag	100
9	06092	Valve Stem Assembly	6
		Valve Stem Assembly – Bulk Bag	96
10	05235	Valve Stem O-Ring	24
11	01074	Spring	6
12	06069	Downtube/Retainer Asy – A620	1
	01075	417, C403, 403, 410, A417, A403,A410	
	06212	409, 425, 416, A/B409, B403, B410, B417, A/B416	
	03397	459	
ALL BRACKETS – SEE BRACKET PAGE			
ALL FILL & HYDROTEST ADAPTERS – SEE ADAPTER PAGE			
ALL VALVE ASSEMBLIES INCLUDE VALVE BODY, GAUGE, LEVER & HANDLE			



PARTS LIST for 5 - 20 lb. Dry Chemical (Hose & Horn) Aluminum Valve Models

400	443	A/B457
A400	A/B443	479
A/B402	453	A/B479
A411	A/B453	500
A412	456	A/B500
A413	B456	

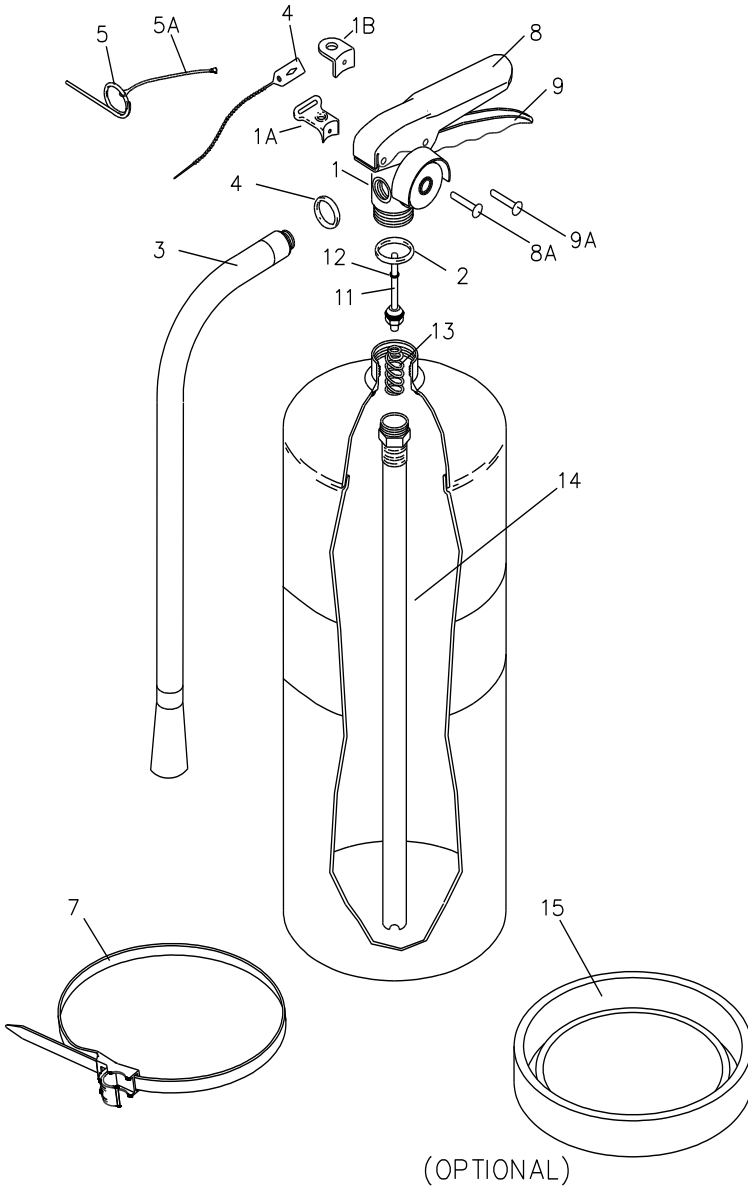


Item No.	Part No.	Description	Std. Pkg.
1	11823	Valve Assembly – 5, 5½, 6 & 10 Lb	1
	11824	20 Lb.	1
1A	14220	Hanger Loop w/Screw (Optional)	6
2	07641	Hose & Horn Asy-400, A400 (.149)	1
	14849	A/B402 (.157)	
	06215	453, A/B453, A/B500 (.147)	
	05248	479, 500, 443, A/B479, A/B443 (.152)	
	05564	456, A/B456, A/B457 (.191)	
	06541	B456X (.166)	
	08759	B459X (.136)	
	11221	A411 (.209)	
3	01532	Hose Gasket (O-Ring) - All 5,6, & 10 Lb.	24
	06978	A411, A412, A413	24
4	01412	Ring Pin	24
4A	00532	Chain (Nylon) for Ring Pin	24
5	01387	Lockwire Seal (Yellow)	500
6	11825	Lever & Rivet-A400, A/B402, A/B453 A/B479, A/B500, A/B443, A/B456, A/B457, A411, A412, A413	1
6A	01060	Rivet Only for Lever – Old & "A" Valve	24
6B	02625	Lever & Rivet – 400, 453, 479, 443, 456	1
7	03103	Gauge – 195 psi	6
8	11826	Handle & Rivet-400, A/B402, A/B453 A/B479, A/B500, A/B443, A/B456, A/B457	1
	12405	A411, A412, A413	
8A	01064	Rivet Only for Handle - All 5-10 lb.	24
	12201	A411, A412, A413	
8B	09002	Handle & Rivet – 453, 479, 500	1
	09003	400, 443, 456	
9	05241	Collar O-Ring	24
		Collar O-Ring – Bulk Bag	100
10	06092	Valve Stem Assembly	6
		Valve Stem Assembly – Bulk Bag	96
11	05235	Valve Stem O-Ring	24
12	01074	Spring	6
13	01519	Downtube/Retainer Assembly - 456, A/B456, A/B457	1
	11674	A411, A412, A413	
	06212	A/B402, 453, 479, 500, A/B453, A/B479, A/B500	
	03397	400, 443, A400, A/B443	
14	15747	Strap & Clip Asy (Black Plastic-3/8" Hose) All 5-10 lb.	1
	14778	Strap & Clip Asy (Black Plastic-1/2" Hose) All 20 lb.	
15	12383	Protective Ring for Bottom of Cylinder-7"	1
ALL BRACKETS – SEE BRACKET PAGE			
ALL FILL & HYDROTEST ADAPTERS – SEE ADAPTER PAGE			
ALL VALVE ASSEMBLIES INCLUDE VALVE BODY, GAUGE, LEVER & HANDLE P/N 05248 & P/N 06215 Hose & Horn Asy are both Valid for use on Model 500			



PARTS LIST for 5-30 lb. Dry Chemical Brass Valve Models

408	B441	461
415	447	B461
419	B447	462
423	460	B462
424	B460	692
B424		693



Item No.	Part No.	Description	Std. Pkg.
1	11952	Valve Assembly – All models	1
1A	15363	Hanger Loop w/Screw – "B" Models B441, B447, B460 – 10 lb.	1
1B	16694	Hanger Loop w/Screw – 5 lb., 6 lb., & 20 lb.	
2	05240	Collar O-Ring	24
		Collar O-Ring – Bulk Bag	100
3	03753	Hose & Horn Asy–424, B424 (.140)	1
	08337	B424X (.152)	
	01178	441, 447-B447 (.173)	
	03753	61-B461, 462-B461 (.140)	
	06095	419, 460-B460, B441 (.152)	
	01304	B441X (.157)	
	03339	423 (.174)	
	05174	415 (.177)	
	03332	408 (.173)	
	12603	692 (.216)	1
	13439	693 (.191)	1
4	06978	Hose Gasket (O-Ring)	24
5	00160	Ring Pin, Stainless Steel	24
5A	00532	Chain (Nylon) for Ring Pin	24
6	01387	Lockwire Seal (Yellow)	500
7	15747	Strap & Hose Clip Asy (Black Plastic) 3/8" All 4½ & 5" Dia Cylinders	1
	14778	Strap & Hose Clip Asy (Black Plastic) ½" All 7" Dia Cylinders	
	14871	Strap & Hose Clip Asy (Black Plastic) ½" All 8" Dia Cylinders	
8	07762	Lever & Rivet – All Models	1
8A	01563	Rivet Only for Lever	24
9	09020	Handle & Rivets – All Models	1
9A	01564	Rivets Only for Handle (2 Req'd)	24
10	03965	Gauge – 195 PSI	6
11	05243	Valve Stem O-Ring	24
12	06093	Valve Stem Assembly	6
		Valve Stem Assembly – Bulk Bag	96
13	00383	Spring	6
14	01696	D'tube/Retainer Asy-424-B424	1
	01700	419	
	03754	461-B461, 462-B462	
	02609	441-B441, 447-B447, 460-B460	
	01667	408, 415, 423	
	09583	692, 693	
15	12383	Protective Ring for Bottom of Cyl 7"	1
	12952	Protective Ring for Bottom of Cyl 7"	1
ALL BRACKETS – SEE BRACKET PAGE			
ALL FILL & HYDROTEST ADAPTERS – SEE ADAPTER PAGE			
ALL VALVE ASSEMBLIES INCLUDE VALVE BODY, GAUGE, LEVER & HANDLE			
P/N 05248 & P/N 06215 Hose & Horn Asy are both Valid for use on Models 500 & 500T			